IN THE CLAIMS

For the convenience of the Examiner, all pending claims are set forth below, whether or not an amendment is made.

1. **(Original)** A method for performing compression, comprising:

receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;

ignoring a change in the predetermined increment associated with the packet identifiers;

compressing the plurality of packets; and

transmitting the flow to a decompressor.

2. **(Original)** The method of Claim 1, further comprising:

receiving the flow at the decompressor, each packet of the flow having a sequence number;

detecting a skip in the sequence numbers of the plurality of packets of the flow; and

accepting the flow having the skip in the sequence numbers.

3. **(Original)** The method of Claim 1, further comprising:

determining that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;

establishing that the flow comprises a compressed packet in the place of a full header packet; and

establishing that the full header packet is lost.

4. **(Original)** A system for performing compression, comprising:

a compressor operable to:

receive a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;

ignore a change in the predetermined increment associated with the packet identifiers;

compress the plurality of packets; and

transmit the flow; and

a decompressor coupled to the compressor operable to decompress the flow.

5. **(Original)** The system of Claim 4, the decompressor further operable to:

receive the flow, each packet of the flow having a sequence number;

detect a skip in the sequence numbers of the plurality of packets of the flow; and

accept the flow having the skip in the sequence numbers.

6. **(Original)** The system of Claim 4, the decompressor further operable to:

determine that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;

establish that the flow comprises a compressed packet in the place of a full header packet; and

establish that the full header packet is lost.

7. **(Original)** Logic for performing compression, the logic embodied in a medium and operable to:

receive at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;

ignore a change in the predetermined increment associated with the packet identifiers;

compress the plurality of packets; and

transmit the flow to a decompressor.

8. **(Original)** The logic of Claim 7, further operable to:

receive the flow at the decompressor, each packet of the flow having a sequence number;

detect a skip in the sequence numbers of the plurality of packets of the flow; and

accept the flow having the skip in the sequence numbers.

9. **(Original)** The logic of Claim 7, further operable to:

determine that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;

establish that the flow comprises a compressed packet in the place of a full header packet; and

establish that the full header packet is lost.

10. **(Canceled)**

11. **(Canceled)**

12. **(Canceled)**

13. **(Canceled)**

14. **(Canceled)**

15. **(Canceled)**

16. **(Canceled)**

17. **(Canceled)**

18. **(Canceled)**

19. **(Canceled)**

20. **(Canceled)**

21. **(Canceled)**

22. **(Canceled)**

23. **(Canceled)**

24. **(Canceled)**

25. **(Canceled)**

26. **(Original)** A method for performing compression, comprising:

receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;

ignoring a change in the predetermined increment associated with the packet identifiers;

compressing the plurality of packets;

transmitting the flow to a decompressor;

receiving the flow at the decompressor, each packet of the flow having a sequence number;

detecting a skip in the sequence numbers of the plurality of packets of the flow;

accepting the flow having the skip in the sequence numbers;

determining that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;

establishing that the flow comprises a compressed packet in the place of a full header packet; and

establishing that the full header packet is lost.

27. **(Canceled)**

28. **(New)** The method of Claim 1, further comprising:

determining at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier;

establishing that the context identifier is available; and

assigning the context identifier to the flow in response to establishing that the context identifier is available.

29. **(New)** The method of Claim 1, further comprising:

determining at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period; and

establishing that the context identifier is available.

30. **(New)** The method of Claim 1, further comprising:

establishing that a context identifier is available;

assigning the context identifier to the flow;

appending a full header packet corresponding to the context identifier to the flow; and

transmitting the flow to the decompressor.

31. **(New)** The system of Claim 4, the compressor further operable to:

determine that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier;

establish that the context identifier is available; and

assign the context identifier to the flow in response to establishing that the context identifier is available.

32. **(New)** The system of Claim 4, the compressor further operable to:

determine that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period; and

establish that the context identifier is available.

33. **(New)** The system of Claim 4, the compressor further operable to:

establish that a context identifier is available;

assign the context identifier to the flow;

append a full header packet corresponding to the context identifier to the flow; and

transmit the flow to the decompressor.

34. **(New)** The logic of Claim 7, further operable to:

determine at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier;

establish that the context identifier is available; and

assign the context identifier to the flow in response to establishing that the context identifier is available.

35. **(New)** The logic of Claim 7, further operable to:

determine at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period; and

establish that the context identifier is available.

36. **(New)** The logic of Claim 7, further operable to:

establish that a context identifier is available;

assign the context identifier to the flow;

append a full header packet corresponding to the context identifier to the flow; and

transmit the flow to the decompressor.

37. **(New)** A system for performing compression, comprising:

means for receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;

means for ignoring a change in the predetermined increment associated with the packet identifiers;

means for compressing the plurality of packets; and

means for transmitting the flow to a decompressor.

38. **(New)** A method for performing compression, comprising:

receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;

ignoring a change in the predetermined increment associated with the packet identifiers;

determining at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period;

establishing that the context identifier is available;

assigning the context identifier to the flow in response to establishing that the context identifier is available;

appending a full header packet corresponding to the context identifier to the flow;

compressing the plurality of packets;

transmitting the flow to a decompressor;

receiving the flow at the decompressor, each packet of the flow having a sequence number;

detecting a skip in the sequence numbers of the plurality of packets of the flow;

accepting the flow having the skip in the sequence numbers;

determining that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;

establishing that the flow comprises a compressed packet in the place of the full header packet; and

establishing that the full header packet is lost.